

PHASE I BOOK EXPLOITATION

SOV/4911

Khrulev, Valentin Mikhaylovich

Ispytaniye fanery (Testing Plywood) Moscow, Goslesbumizdat,
1960. 72 p. 3,000 copies printed.

Ed.: B. I. Zimin; Ed. of Publishing House: L. V. Nikitina;
Tech. Ed.: A. I. Kuznetsova.

PURPOSE: This book is intended for engineering and technical
personnel in woodworking and building industries.

COVERAGE: The book presents general information on research
methods for plywood and on results of scientific research
conducted by the Tsentral'nyy nauchnoissledovatel'skiy in-
stitut stroitel'nykh konstruktsiy Akademii stroitel'stva
i arkhitektury SSSR (Central Scientific Research Institute
of Building Structures of the Academy of Building and
Architecture USSR), the Tsentral'nyy nauchno-issledovatel'-
skiy institut fanery i mebeli (Central Scientific Research
Institute of Plywood and Furniture), and other research
organizations, dealing with strength and durability of

Card 1/3

KHRULEV, V.M., kand.tekhn.nauk

Problems in the theory of accelerated gluing of panels made
of wood waste in a high-frequency field. Trudy Zap.-Sib.fil.
ASiA no.3:61-72 '60. (MIRA 15:2)

(Induction heating)

(Hardboard)

YEREMENKO, V.V., kand.tekhn.nauk; KHRULEV, V.M., kand.tekhn.nauk;
STAVITSKAYA, L.M., inzh.

Using plastic coating on facing tiles manufactured from wood
wastes. Der.prom. 9 no.9:16 S '60. (MIRA 13:9)

1. Zapadnosibirskiy filial Akademii stroitel'stva i arkhitektury
SSSR.

(Wood, Compressed)

(Aminoplastics)

KHRULEV, V.M.

Use of epoxide resins in the manufacture of abrasive wheels for cutting objects made of reinforced concrete. Plast.massy no.3:40-41 '61.

(Epoxy resins)

(Cutting machines)

(MIRA 14:3)

KHRULEV, V.M.; NESOV, V.D., inzh., nauchnyy red.; GLOTOVA, L.V., red.
izd-va; MOCHALINA, Z.S., tekhn. red.

[Strength and durability of glued joints in structural elements]
Prochnost' i dolgovechnost' kleevykh soedinenii v stroitel'nykh
konstruktsiakh i detaliakh. Moskva, Gos.izd-vo lit-ry po stroit.,
arkhit. i stroit. materialam, 1961. 118 p. (MIRA 15:1)
(Gluing)

KHRULEV, Valentin Mikhaylovich; FREYDIN, Anatoliy Semenovich; BELOZEROVA, Anastasiya Sergeyevna; ARSENOV, Viktor Vasil'yevich; GUBENKO, A.B., doktor tekhn. nauk, red.; AZAROVA, V.G., red. izd-va; PARAKHINA, N.L., tekhn. red.

[Wood gluing in foreign countries] Skleivanie drevesiny za rubezhom.
By V.M.Khrulev i dr. Moskva, Goslesbumizdat, 1961. 301 p.

(MIRA 14:11)

(Woodwork)

KHRULEV, V.M., kand.tekhn.nauk

Cutting reinforced-concrete flooring. Bet. 1 zhel.-bet. no.5:223-224
'61. (MIRA 14:6)

(Cutting machines)
(Floors, Concrete)

KHRULEV, V.

Elements made of plywood. Stroitel' no.5:31 My '61.

(Plywood)

(MIRA 14:6)

KHRULEV, V.M., kand.tekhn.nauk

Durability of glued joints in veneer. Der. prom. 10 no. 4:11-12
Ap '61: (MIRA 14:4)

1. Akademiya stroitel'stva i arkhitektury SSSR (Zapadno-Sibirskiy
filial).
(Plywood) (Gluing)

KHRULEV, V.M., kand.tekhn.nauk; TYURIKOV, F.T., inzh.

Simplified method of manufacturing lightweight particle boards.
Der.prom. 10 no.12:15-16 D '61. (MIRA 14:12)

1. Zapadno-Sibirskiy filial Akademii stroitel'stva i arkhitektury
SSSR.

(Hardboard)

KHRULEV, Valentin Mikhaylovich; PATUROYEV, V.V., red.; BOYKO, L.I.,
red. izd-va; GRECHISHCHEVA, V.I., tekhn. red.

[Durability of glued joints of wood] Dolgovechnost' kleevykh
soedinenii drevesiny. Moskva, Goslesbumizdat, 1962. 157 p.
(MIRA 16:6)

(Gluing---Testing) (Woodwork)

KHRULEV, V.M., kand.tekhn.nauk

Manufacture of lightweight particle boards by dielectric heating.
Stroi. mat. 8 no.8:39-40 Ag '62. (MIRA 15:9)
(Hardboard) (Dielectric heating)

KHRULEV, V.M., kand.tekhn.nauk

Characteristics of the gluing of plastics with wood. Der.prom.
11 no.12:14-15 D '62. (MIRA 16:1)
(Adhesion) (Wood) (Plastics)

KHRULEV, V. M., kand. tekhn. nauk

Rapid methods of testing glued joints. Sudostroenie 28 no.10:
40-44 0 '62. (MIRA 16:1)

(Gluing—Testing) (Shipfitting)

KHRULEV, V.M.; GUBENKO, A.B., doktor tekhn. nauk, retsenzent;
FREYDIN, A.S., kand. tekhn. nauk, retsenzent; SKRIPOV,
B.S., kand. tekhn. nauk, retsenzent; SIVCHIKIN, F.P.,
dots., retsenzent; ZAYCHIKOVA, E.A., red.; KASIMOV, D.Ya.,
tekhn. red.

[Improving the durability of glued wooden structures and
building elements] Povyshenie dolgovечnosti kleennykh de-
reviannykh konstruktsii i stroitel'nykh detalei. Moskva,
Gosstroizdat, 1963. 113 p. (MIRA 16:8)

(Plywood)

KHRULEV, V.M., kand.tekhn.nauk (Novosibirsk)

Glued joints of parts of piping in sanitary engineering
installations. Vod.i san.tekh. no.4:1-5 Ap '63.

(MIRA 16:4)

(Pipe fitting)

(Epoxy resins)

KHRULEV, V.M., k.t.n. inzh.

Joining pipes in sanitary installations by gluing. Khidrotekhnika
i melior 8 no.5:154-155 '63.

KHRULEV, V.M.

Specimen for a rapid durability test of a wood adhesive. Zav.
lab. 29 no.1:99 '63. (MIRA 16:2)

1. Zapadno-Sibirskiy filial Akademii stroitel'stva i
arkhitektury SSSR.

(Adhesives—Testing)

KHRULEV, V.M., kand. tekhn. nauk; IVANOV, Yu.M., prof., doktor
tekhn. nauk, red.; STRASHNYKH, V.P., red.izd-va; BRUSINA,
L.N., tekhn. red.

[Instructions for quality control of glued joints in wooden
structures and building elements] Instruksiia po kontroliu
kachestva kleevykh soedineniĭ v dereviannykh konstruktsiakh
i stroitel'nykh detaliakh. Moskva, Stroiizdat, 1964. 25 p.
(MIRA 17:2)

1. Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut
stroitel'nykh konstruktsiy.

KHRULEV, V.M., kand. tekhn. nauk

Characteristics of gluing foam plastics. Stroi. mat. 10
no.1:8-9 Ja'64. (MIRA 17:5)

ACCESSION NR: AP4035093

S/0032/64/000/005/0601/0602

AUTHOR: Khrulev, V. M.

TITLE: Estimating the state of cemented joints in tests for resistance to water and atmosphere

SOURCE: Zavodskaya laboratoriya, no. 5, 1964, 601-602

TOPIC TAGS: cemented joint, water resistance, atmosphere resistance, birch plywood, cohesion failure, phenol formaldehyde cement, urea formaldehyde cement, shear strength

ABSTRACT: Accelerated experiments were performed to determine the resistance of birch plywood to the action of water, heat, and atmosphere. Mathematical processing of data proved that the change in the percent of failures after both the accelerated and prolonged experiments is accompanied by a change in the coefficient ν of the shearing strength of the samples. As the percentage of failures diminished, the coefficient ν increased. It was also determined that with the decrease in the percentage of failures the strength of a joint was increasingly dependent on the strength of the cement and its adhesion to the wood (rather than on the

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ACCESSION NR: APL4049496

8/0122/64/000/011/0047/0043

AUTHOR. Khrulev, V. M. (Candidate of technical sciences)

61-00180 101748

- ... Vestnik mashinostroyeniya, no. 11, 1964, 47-49

NOTE TAG: bonding, bonded joint, bolted joint

Cemented-bolted joints (made by bolting together cemented joints during drying) were investigated. Fiberglass yield strength in bending 2800 kg/cm²;

L 20238-65

ACCESSION NR: AF4049496

ENCLOSURE: 01

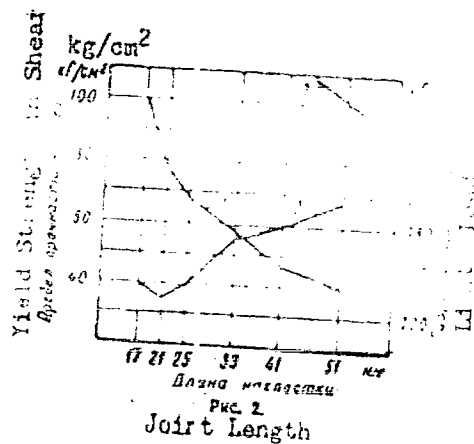


Fig. 1. Yield stress in shear (kg/cm²) and limit load as a function of joint length; 1 & 2 - cemented joint, cemented-bolted joint.

KHRULEV, V.M., kand. tekhn. nauk

Mechanization of gluing parts. Mekh. i avtom. proizvod. 18 no.9:
19-21 3 '64. (MIRA 17:11)

KHRULEV, V.M., kand. tekhn. nauk

Characteristics of the gluing of glass reinforced plastics.
Stroi. mat. 10 no.6:7-8 Je '64. (MIRA 17:10)

KHRULEV, V.M., kand. tekhn. nauk

Strength and sturdiness of bonded and bonded-screwed joints,
Vest. TSNII MPS 23 no.4:50-53 '64. (MIRA 17:8)

1. Novosibirskiy inzhenerno-stroitel'nyy institut.

L 11844-66 EWT(d)/EWT(m)/EWP(v)/EWP(j)/T/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(1)/ETC(m)-6
ACC NR: AP6005829 (A) SOURCE CODE: UR/0374/65/000/006/0103/0107
JD/WW/HM/RM

AUTHOR: Khrulev, V. M. (Novosibirsk)

ORG: none

TITLE: Surface roughness and rheological properties of adhesives as factors determining the optimum thickness of the glue line

SOURCE: Mekhanika polimerov, no. 6, 1965, 103-107

TOPIC TAGS: surface property, rheologic property, ~~bonding~~, adhesive bonding, solid viscosity, surface pressure, surface tension, glue, adhesive

ABSTRACT: The effect of the surface roughness of nonporous materials on the optimum thickness of a glue line was investigated. The author deduces a formula for the penetration of the adhesive into surface of microcavities as a function of geometrical parameters of the roughness, specific pressure, and surface tension of liquid adhesives. A method for computation of specific pressure as a function of pressing time and viscosity of the adhesive is described. Orig. art. has: 3 figures and 6 formulas. [Based on author's abstract]

SUB CODE: 11/ SUBM DATE: 13Apr65/ ORIG REF: 002/ OTH REF: 002
BVK
Card 1/1

UDC: 678:621.792.052.668.395

KHRULEV, V.M., kand.tekhn.nauk (Novosibirsk).

Use of synthetic adhesives in power distribution systems. Energetik
13 no.10:27-28 0 '65. (MIRA 18:10)

KHRULEV, V.M., kard. tekhn. nauk

Using synthetic adhesive in road construction. Avt. dor. 28
no.2:21-23 F '65. (MIRA 18:6)

L 3567-66 EWT(d)/EWP(e)/EWT(m)/EWP(w)/EPF(c)/EWP(1)/EWP(c)/EWP(v)/EWP(j)/T/EWP(k)/
 ACCESSION NR: AP5024823 EWP(1)/ETC(m) JD/WW/JW/ UR/0032/65/031/010/1253/1255
 EM/RM/WH 620.17

AUTHOR: Khrulev, V. M.

TITLE: Determining the service life of an adhesive joint from the data of accelerated thermal aging

SOURCE: Zavodskaya laboratoriya, v. 31, no. 10, 1965, 1253-1255

TOPIC TAGS: adhesion, thermal aging, mathematic analysis

ABSTRACT: The author describes a mathematical method for estimating the length of time an adhesive bond is likely to last from analysis of accelerated aging tests which consist of heating specimens to various temperatures and holding. Graphs are plotted showing the strength of the joint at various constant temperatures acting for a more or less protracted period of time. A line is drawn parallel to the x-axis which cuts off the sections of the curve corresponding to a definite fraction of the original strength (approximately 75-90%). The resultant values of $\log t$ (where t is the time required for a change in the given property of the adhesive joint to a certain value) are plotted in $\log t - 1/T$ coordinates. The values of $\log t$ should show a linear relationship if the thermal aging process corresponds to the

Card 1/2

L 3567-66...

ACCESSION NR: AP5024823

Arrhenius equation:

$$K = a e^{-\frac{E}{RT}}$$

where K is the rate constant of the reaction in sec^{-1} , E is the activation energy, or average excess energy of the molecules which participate in the elementary act of the reaction in cal/mol, R is the universal gas constant in cal/deg·mol, T is the absolute temperature in °K, and a is the preexponential or frequency factor which gives the approximate frequency of molecular vibration in the thermal process in sec^{-1} . It is important in using this method of analysis to select characteristics which are most sensitive to aging (e. g. impact strength or vibration strength). Orig. art. has: 2 figures, 6 formulas.

ASSOCIATION: Novosibirskiy inzhenerno-stroitel'nyy institut (Novosibirsk Structural Engineering Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: GC, MW

NO REF SOV: 003

OTHER: 001

Card 2/2

KHRULEV, V.M., kand.tekhn.nauk

Selecting the thickness of a glued interlayer for joining
parts. Vest.mashinostr. 45 no.11:32-33 N '65.

(MIRA 18:12)

L 01261-67 EWT(m)/EWP(v)/EWP(j)/T IJP(s) WW/RM

ACC NR: AP6003934

(A)

SOURCE CODE: UR/0091/65/000/010/0027/0028

AUTHOR: Khrulev, V. M. (Candidate of technical sciences; Novosibirsk)

47

44

B

ORG: none

TITLE: Use of synthetic glues in power supply equipment

SOURCE: Energetik, no. 10, 1965, 27-28

TOPIC TAGS: epoxy plastic, polyvinyl chloride, ethyl alcohol, furane resin, electric engineering, glue

ABSTRACT: Instead of older methods (soldering, etc.) synthetic glues are now often used during the installation and maintenance of electric equipment and supply lines. Chlorinated polyvinyl chloride glue (solution of chlorinated polyvinyl resin in methylene chloride or dichloroethane) is used for gluing junction boxes, but this must be done away from heating equipment in well-ventilated areas because of its toxicity and inflammability. Junction boxes, made from epoxide compound K-115, are simple, have good electrical and mechanical properties, and are relatively small in size. While connecting cables, the junction boxes are filled with a compound consisting of epoxy resin ED-5, polyester MGF-2, quartz powder, and polyethylenepolyamines as a solidifying agent. The same compound is used for gluing together the halves of cast junction boxes. The gluing of polyvinyl chloride shields of cables by using rubber provides for

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UDC: 668.31:658.26

L 05914-67 EWP(j)/EWP(k)/EWT(m)/EWP(v)/EWP(t)/ETI IJP(c) RM/WJ/JD/HM	
ACC NR: AP6009260	SOURCE CODE: UR/0122/65/000/011/0032/0033
AUTHOR: Khrulev, V. M. (Candidate of technical sciences)	
ORG: None	34 B
TITLE: The selection of <u>glue</u> layer thickness for joining parts	
SOURCE: Vestnik mashinostroyeniya, no. 11, 1965, 32-33	
TOPIC TAGS: glue, molecular interaction, <u>metal gluing</u> , surface property	
ABSTRACT: The author discusses the basic principles of glue and surface interaction along with a diagram and expressions for calculating glue layer thickness. Optimum gluing conditions are discussed. The degree of surface cavity filling in joining materials is a function of pressure. Surfaces separated by a glue layer can approach each other to the point where the peaks of the two materials interlock during press fitting if the pressure applied to the surfaces is sufficient. This process is accompanied by increased molecular interaction between glue and surface. The strength of such joints is much greater than that achieved by a glue layer alone or by dry pressing. Data are discussed with respect to bushing joint strength and bearing ring force fitting using a thin glue layer. These data show that the use of a thin glue layer produces joints which are 3.5 times stronger than those produced by dry force fitting. A graph is given for determining the thickness of the glue layer for the case where press fitting is replaced by gluing. Orig. art. has: 2 figures, 5 formulas.	
SUB CODE: 13, 11/ SUBM DATE: None/ ORIG REF: 002/ OTH REF: 001	
Card 1/1 KH	UDC: 621.792.001.24

KHRULEV, Valentin Mikhaylovich; BRATCHIK, Ye.I., red.

[Synthetic adhesives in railroad technology] Sinteticheskie klei v zheleznodorozhnoi tekhnike. Moskva, Transport, 1965. 150 p. (MIRA 18:2)

KARULEY, V. V.

26. V. S. TROITSKIY, V. V. KARULEY: Measurement of the spectral line width of a 3.2 cm wavelength klystron generator (Gorkii Univ.) p. 831

limited to be 0.1 - 0.4 cm. The spectra of the oscillations and frequency fluctuations of the oscillations are investigated in the range 0.1 - 0.4 cm. The measurements are made according to the Barshtein method.

Advantages:

05671

AUTHORS: No Langston, <u>Richard V.</u> 1-ong Street, Tregville, N.M.	Malibov, A.M., 55ankovitch, E.S. Troitskiy, V.S.	SOV/41-2-2-2/23 V. G. G. G. G. K. K. K. K.	Boris, V.A. K. K. K. K. K. K. K. K.
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ITALY

on wavelengths of 1.63, 3.2 and 10 cm

ABSTRACT: The report of a lecture given by the author at the 1959. Vol 2, Nr 2, pp 154 - 156 (USSR) Radiotekhnika

the report of a Soviet Geophysical expedition to the island of Bikini ($\varphi = 16^{\circ}30'N$, $\lambda = 110^{\circ}01'12''E$) on the island of Bikini. The aerials used parabolic reflectors of the longest. The shortest wavelengths and 1.5 m at $\lambda = 1.5$ m. The accuracy of the measurements of the aerials was $\pm 1\%$. The electrical axes accuracy of linearly means to be $\pm 15\%$ at the longer wavelengths and $\pm 20\%$ at the shorter. The relative accuracy, assuming an averaging interval of 1 day, was 2-3%. The results are shown in Figure 1 as measurements of effective temperature expressed as a percentage of the

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temperature of the unacidified run. The values of the letter were 9.000×10^4 (1.65 cm), 11.000×10^4 (3.2 cm), 100.000×10^4 (10 cm). The vertical lines on the diagram represent the instants of disc removal (4 in number) and the oscillation of certain wall-unit (4 in number) and 150-cm number of peccarities may be spots Nr 188 3.25×10^4 , Nr 189 3.05×10^4 and between 3.25×10^4 and 3.05×10^4 cm. It is an increase in intensity over the run. If the Nr 188 group of spots measures 3×10^4 at 0.04×10^4 cm may be estimated. The curves for 3.2 cm explained as due to a wedge-shaped. This may be increased in brightness towards the eastern limb of the sun. The longer wavelength curves show a small "ump" in the trough. This is due to "slab brightening" and it is possible to estimate its amount - 0.6% at the

Conclusions

[illegible]

ASSOCIATOR: Iselodovatel'skiy radiofizicheskiy Institut pri Gorn'kovskom univertsitate (Radiofiziches Research Institute of Gorn'kiy University)

SUBMITTED: December 9, 1958

Card 3/3

КНХ 4.374.2Н

KHRULEV, V.V.

ACCESSION NR: AP3000163

S/0141/63/006/002/0398/0398

AUTHOR: Khrulev, V. V.

TITLE: Results of intensity measurements of radio emission from discrete sources in Cassiopeia-A and Cygnus-A at 10.26 cm wavelength

SOURCE: Izvestiya vysshikh uchebnykh zavedeniy, radiofizika, v. 6, no. 2, 1963, 398

TOPIC TAGS: radio emission, radiometer, Cas-A, Cyg-A

ABSTRACT: Results of measuring 10.26-cm emission from discrete sources in Cas-A and Cyg-A show a radio brightness of 2K and an energy density of $(15.26 \pm \text{or} - 0.46)10 \text{ sup } -24 \text{ w/m sup } 2/\text{cps}$ for Cas-A, and 1K and $(7.5 \pm \text{or} - 0.53)10 \text{ sup } -24 \text{ w/m sup } 2/\text{cps}$ for Cyg-A. The observations were made in 1962 in the Mt. Karadag region of the Crimea using a 4-m parabolic antenna with a half-power beam width of $1^{\circ}40'$. The receiver was a radiometer with parametric amplification giving a true threshold of 0.1K at a time constant of 16 sec. Calibration was accomplished against an "artificial moon", formed by a black-

Card 1/2

ACCESSION NR: AP3000163

body disk 3.8 m in diameter and located 230 m from the antenna at a 26° elevation; the resulting reference temperature was 27.7K. Overall rms errors based on 35 measurements from Cas-A and 9 from Cyg-A were + or - 3% and + or - 7%, respectively. Orig. art. has: 2 formulas.

ASSOCIATION: Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete (Scientific Research Institute of Radiophysics of Gor'kiy University)

SUBMITTED: 22Nov62

DATE ACQ: 12Jun63

ENCL: 00

SUB CODE: 00

NO REF SOV: 002

OTHER: 000

Card 2/2

L 6304-66 ENT(1)/FED GW/WS-2

ACC NR: AP5026699

SOURCE CODE: UR/0141/65/008/005/0857/0861

AUTHOR: Razin, V. A.; Khrulev, V. V.
55 55

ORG: Scientific Research Radio Physics Institute, Gorkiy University (Nauchno-
issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete) 54 B

TITLE: Optimum wavelength and width of spectral interval in studies of the polarization of distributed cosmic radio-frequency radiation

SOURCE: IVUZ. Radiofizika, v. 8, no. 5, 1965, 857-861

TOPIC TAGS: radio emission, cosmic radiation, antenna radiation pattern, decimeter wave 12, 55

ABSTRACT: In order to determine the optimum transmission bandwidth of the apparatus used for measuring the polarization of cosmic radio-frequency radiation, the authors have determined the dependence of the position angle and degree of polarization of the radiation on the transmission band. At frequencies above 600 Mc, the optimum width of the spectral interval is large, and there are no restrictions on the transmission bandwidth of the apparatus in connection with the rotation of the

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UDC: 621.396.628 : 523.164 : 523.164.4

L 6304-66

ACC NR: AP5026699

polarization plane of the radiation; at lower frequencies, however, the transmission band of the apparatus must be made relatively narrow. The range of waves on which the polarization can be studied in the long-wave region is limited by depolarization due to the Faraday effect, and in the short-wave region, by the low brightness temperature of the nonthermal radiation (which drops rapidly with rising frequency). It is shown that if the polarization measurements are performed with antenna systems of moderate size, the most suitable wavelengths are those in the decimeter range. Orig. art. has: 1 table and 12 formulas.

SUB CODE: EC,AA/ SUBM DATE: 03May65/ ORIG REF: 004/ OTH REF: 004

Card 2/2 RDS.

L 12050-66 EMT(1)/EGG/EWA(h) GW	
ACC NR: AP6002292	SOURCE CODE: UR/0141/65/008/006/1063/1068
AUTHOR: Razin, V. A.; Khrulev, V. V. 30 B	
ORG: Gor'kiy State University (Gor'kovskiy gosudarstvennyy universitet)	
TITLE: Depolarization of cosmic radiation due to the dispersion of Faraday rotation of radio-wave polarization plane	
SOURCE: IVUZ. Radiofizika, v. 8, no. 6, 1965, 1063-1068	
TOPIC TAGS: cosmic radiation, cosmic radiation polarization	
ABSTRACT: Simplest cases of depolarization of cosmic r-f radiation were considered by T. Hatanaka (Publ. Astron. Soc., Japan, 8, 73, 1956). The present article theoretically considers more complicated cases of the depolarization due to both the Faraday dispersion and the finite bandwidth of measuring instruments.	
These general formulas are developed for the position angle: $\chi = \frac{1}{2} \frac{U}{Q}$; and for the degree of depolarization: $P = \left \frac{Q}{I} \right = \left \int_0^\infty F(\xi) \cos(2\xi) d\xi \right \left(\int_0^\infty F(\xi) d\xi \right)^{-1}$, where I, Q, U are integral Stokes parameters. Specific formulas for depolarization, normalized	
Card 1/2	UDC: 523.164.4:621.396.628

L 18550-66

ACC NR: AP6002292

frequency characteristic, and relative passband are tabulated for these circuits and conditions: single-circuit stage, two-circuit resonant stage, four-circuit resonant stage, Gaussian characteristics, two staggered circuits, three staggered circuits, two pairs of staggered circuits, two groups of three staggered circuits, Π -shaped frequency characteristic. It is found that, with polarization ≥ 0.05 , the position angle varies only by a few degrees for a receiver passband within 1-2% of its resonance frequency. Orig. art. has: 2 figures, 18 formulas, and 1 table.

SUB CODE: 03

SUBM DATE: 22Jun65 / ORIG REF: 004 / OTH REF: 002

Card 2/2 mg 5

KHRULEVA, I. K.

KAZAKOVA, M.P., inzhener; KHRULEVA, I.K., inzhener; BOCHKAREVA, I.K.,
inzhener.

New electric detonators of immediate and short-delay effect.
Gor. zhur. no.4:60-63 Ap '57. (MLRA 10:5)
(Detonators) (Blasting)

KHRULEVA, K.N., zasluzhennyy vrach RSFSR (Moskva, Novyye Cherepushki,
ul. Vlasova d.7/1, kv.49)

Comparative evaluation of the results of treatment of a congenital
dislocation of the hip joint in children. Ortop., travm. i protez.
26 no.12:17-22 D '65.

(MIRA 19:1)

1. Iz Moskovskoy oblastnoy detskoy ortopedo-nevrologicheskoy
bol'nitsy (glavnyy vrach - P.V.Pakhomov). Submitted April 26,
1965.

KHRULEVA, L.N.

Simultaneous study of conditioned reflexes of the serous and mucous
salivary glands. Trudy Inst.vys.nerv,deiat,Ser.fiziol. 1:5-14 '55.

(MLBA 9:8)

1. Iz laboratorii vegetativnykh uslovnykh reflektov, zaveduyushchiy
M.A.Usiyevich,

(SALIVARY GLANDS) (CONDITIONED RESPONSE)

KHRULEVA, L.N.

USSR/Human and Animal Physiology - The Nervous System.

V-10

Abs Jour : Ref Zhur - Biol., No 2, 1958, 9063

Author : L.N. Khruleva

Inst : The Institute of Higher Nervous Activity of the Academy of Sciences of the USSR. - *Lab of Conditioned Vegetative Reflexes*

Title : Simultaneous Experimental Study of Conditioned Reflexes of Serous and Mucous Salivary Glands. Report 2. Conditioned Reflexes of Serous and Mucous Glands in the Dog upon Exposure to Radiant Energy.

Orig Pub : Trudy In-ta byssh. nervn. deyatel'nosti AN SSSR, Ser. fiziol., 1956, 2, 267-272

Abstract : The parietal region of a dog with fistulas of the parotid and submaxillary glands was irradiated four times with Co⁶⁰ (50 r). Changes in conditioned reflexes were not observed the first day. On the succeeding days there occurred an

Card 1/2

KHRULEVA, L.N.

Effect of gamma rays on the higher nervous activity of dogs;
Trudy Inst.vys.nerv. deiat. Ser. patofiziol. 4:48-67 '58 (MIRA 11:12)

1. Iz laboratorii vysshey nervnoy deyatel'nosti zhivotnykh
(zav. laboratoriyey - starshiy nauchnyy sotrudnik A.A. Pavlovskaya)
Instituta vysshey nervnoy deyatel'nosti AN SSSR.
(CONDITIONED RESPONSE)
(GAMMA RAYS—PHYSIOLOGICAL EFFECT)

KHRULEVA, L.N.

Effect of aminazine on the higher nervous activity in animals. Report
No.1. (dogs). Trudy Inst. vys. nerv. deat. Ser. fiziol. 3:151-158 '59.

(MIRA 12:3)

1. Iz laboratorii vegetativnykh uslovykh refleksov, zav. - A.A. Pav-
lovskaya.

(CONDITIONED RESPONSE) (CHLORPHOMAZINE)

KHRULEVA, L.N.

Influence of aminazine on the higher nervous activity of animals (dogs). Report No.2. Trudy Inst.vys.nerv.deiat. Ser.fiziol. 4: 141-151 '60. (MIRA 13:7)

1. Iz laboratorii vegetativnykh uslovnykh refleksov Instituta vysshey nervnoy deyatel'nosti AN SSSR. Zaveduyushchiy laboratoriyey - A.A. Pavlovskaya.
(CHLORPROMAZINE) (NERVOUS SYSTEM)

KHRULEVA, L.N.

Influence of aminazine on the higher nervous activity of dogs.
Report No. 3: Changes in the conditioned and unconditioned
food reflexes following the use of aminazine. Trudy Inst.
vys. nerv. deiat. Ser. fiziol. 5:217-222 '60. (MIRA 13:10)

1. Iz laboratorii vysshey nervnoy deyatel'nosti zhiivotnykh
(zav. - A.A. Pavlovskaya) instituta vysshey nervnoy deyatel'nosti,
(CHLORPROMAZINE) (REFLEXES)

KHRULEVA, L.N.

Influence of aminazine on the higher nervous activity of dogs.
Report No. 4: Influence of aminazine on the characteristics of
the basic nerve processes and on the dynamics of experimental
neuroses. Trudy Inst. vys. nerv. deiat. Ser. fiziol. 5:223-230
'60. (MIRA 13:10)

1. Iz Laboratorii vysshey nervnoy deyatel'nosti zhivotnykh
(zav. - A.A. Pavlovskaya) instituta vysshey nervnoy deyatel'nosti.
(CHLORPROMAZINE) (NERVOUS SYSTEM)

KHRULEVA, L.N.

Effect of aminazine on the higher nervous activity in dogs. Zhur.
nevr.i psikh. 60 no.5:577-584 '60. (MIRA 13:9)

1. Laboratoriya vyssey nervnoy deyatel'nosti zhivotnykh (zav. - A.A.
Pavlovskaya) Instituta vysshey nervnoy deyatel'nosti AN SSSR, Moskva.
(CHLORPROMAZINE) (CONDITIONED RESPONSE)

KHRULEVA, L.N.

Effect of large doses of aminazine on the higher nervous activity
of dogs. Trudy Inst.vys.nerv.deiat. Ser.fiziol. 7:210-215 '62.
(CHLORPROMAZINE) (CONDITIONED RESPONSE) (MIRA 16:2)

KHRULEVA, L.N.

Use of small doses of aminazine in experimental neuroses.
Zhur. nevr. i psikh. 64 no. 12:1877-1882 '64. (MIRA 18:1)

1. Laboratoriya uslovykh refleksov (zaveduyushchiy - prof.
E.A.Asratyan) Instituta vysshey nervnoy deyatel'nosti i
neyrofiziologii AN SSSR, Moskva.

L 13947-65 EMA(b)-2/EMA(j)/EVT(j) Pa-L JK

3. 1965, 101-106

mouse, rat, rodent carrier, epidemiology, Moscow,
salmonella, pasteurilla, bacteriologic culture method, bacteria,
infection

Bacterial infections spread

415009028

and. The following are the most common and are mostly

Pasteurella pseudotuberculosis, and a strain of Listeria were found in
strains of Salmonella and Listeria were found in lice and
a strain of Listeria was found in ticks. Bacterial cultures were

storage sites Mus musculus and Microtus arvalis were most often

mentioned except histeria. At railway stations, river boat docks, and airports the Microtus arvalis and Mus musculus were mostly infected with salmonellosis and Rattus norvegicus with pasteurellosis.

Card 2/3

Central'naya protivochumnyaya nab'yudatel'skaya
Stantsiya Ministerstva zdoravokhraneniya SSSR, Moscow. (Central
Antiplague Observation Station of the Ministry of Health SSSR)

SUBMITTED: 100at63

ENCL: 00

ADDITIONAL: 005

OTHER: 001

TOKHTAKHODZHAYEV, S.T.; KOLONTAROV, I.Kh.; ROZOV, M.N.; BURSHTEYN, I.I.;
KHRULEVA, T.V.; ARETSKAYA, Yu.S.; POPOVA, N.M.

Production of glinite by burning in a rotary kiln. Uzb. khim.
zhur. 7 no.5:43-49 '63. (MIRA 17:2)

1. Institut khimii AN UzSSR.

KHRUL'KEVICH, O., insh.

Maintenance system for "Ferguson" machines. Tekh.v sel'khoz. 19
no.5:59-60 My '59. (MIRA 12:7)

1. Minskiy traktorny zavod.
(Agricultural machinery--Maintenance and repair)

KHRUL'KEVICH, O.A.

In India and Burma. Mekh. i elek. sots. sel'khoz. 16 no.3:56-57
'58.

(MIRA 11:6)

(India--Agricultural machinery)

(Burma--Agricultural machinery)

S/121/61/000/008/005/006
D041/D113

AUTHOR: Khrul'kov, V.A.

TITLE: Grinding of permanent magnets

PERIODICAL: Stanki i instrument³², no. 8, 21-22

TEXT: The author discusses the grinding of permanent magnets made of AH (AN), AHK (ANK), and AHKO (ANKO) cast alloys which are widely used in the instrument making industry, and gives practical advice on means of eliminating fragmentation and scaling. The magnetic alloys are solid iron solutions with an Ni, Al, and Co base. They can be ground without defects by means of abrasive wheels made of mono- or electro-corundum of M 3 (M3) to C 1 (S1) hardness with a ceramic bond, or wheels with S1 to C 2 (S2) hardness with a bakelite bond. Grinding of magnets with silicon carbide wheels of CM 1 (SM1) to M 3 (M3) hardness leads to fragmentation and scaling. Measurements of the cutting-force components during cylindrical in-feed grinding at various speeds gave the following results: (1) The optimum speed for magnets is 35 m/min. At this speed and a transverse feed of 0.2 mm/min, neither fragmentation nor scaling occurs, and the specific

Card 1/2

1.17610-65 B-T(m)/EWA(d)/T/ENP(t)/ENP(b) ASD(m)-3 M/W/ID/M/K

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BOOK EXPLOITATION

5/

Khrul'kov, Vladimir Andreyevich (Candidate of Technical Sciences)

Bx1

metal polishing, heat-resistant alloy

PURPOSE AND COVERAGE: The book cites the results of research conducted by the author on methods of production polishing of heat-resistant alloys (Stal, Stal-7B, and others) using abrasive wheels. Research on the features of the process of polishing with a direct effect of the abrasive wheel on the work piece is carried out. The book contains data on the measurement of the temperatures and cutting forces in the zone of contact with the work piece made it possible to establish the optimal conditions for polishing pieces without surface defects. The book is intended for engineers and technicians working in the field of metal processing.

ACCESSION NR AM4048671

industry and research institutes. It can also be useful to teachers and students of technical education institutions.

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KAMINSKIY, M.Ye.; NAYERMAN, M.S.; PETROSYAN, L.K.; POPOV, S.A.,
kand. tekhn. nauk; KHRUL'KOV, V.A., kand. tekhn. nauk, retsen-
zent
[Efficient use of diamond tools] Ratsional'naya eksplua-
tatsiia almaznogo instrumenta. [By] M.E.Kaminskii i dr.
Moskva, Mashinostroenie, 1965. 238 p. (MIRA 18:6)

ANDREYEV, G.S., kand. tekhn. nauk; BOKUCHAVA, G.V., kand. tekhn. nauk, dots.; BRAKHMAN, L.A., inzh.; BUDNIKOVA, A.V., inzh.; GORDON, M.B., kand. tekhn. nauk, dots.; ZHAVORONKOV, V.N., inzh.; KARZHAVINA, T.V., kand. tekhn. nauk; KOROTKOVA, V.G., inzh.; KORCHAK, S.N., inzh.; KLUSHIN, M.I., kand. tekhn. nauk, dots.; KUZNETSOV, A.P., kand. tekhn. nauk, dots.; KURAKIN, A.V., inzh.; LATYSHEV, V.N., inzh.; OL'KHOVSKIY, V.N., inzh.; ORLOV, B.M., kand. tekhn. nauk, dots.; OSHER, R.N., inzh.; PODGORKOV, V.V., inzh.; SIL'VESTROV, V.D., kand. tekhn. nauk [deceased]; TIKHONOV, V.M., inzh.; TROITSKAYA, D.N., inzh.; KHIMIL'KOV, V.A., inzh.; LESNICHENKO, I.I., red. izd-va; SOKOLOVA, T.F., tekhn. red.; GORDEYEVA, L.P., tekhn. red.

[Lubricating and cooling fluids and their use in cutting metals]
 Smazochno-okhlazhdaiushchie zhidkosti pri rezanii metallov i
 tekhnika ikh primeneniia. Moskva, Gos. nauchno-tekhn. izd-vo
 mashinostroit. lit-ry, 1961. 291 p. (MIRA 15:1)
 (Metalworking lubricants)

PER, Abram Grigor'yevich; KHRUL'KOV, V.A., kand. tekhn.nauk, retsenzent;
KUNIN, P.A., inzh., red.; STEPANOVA, A.A., red. izd-va;
NOVIK, A.Ya., tekhn. red.

[Diamond and fine machining in the manufacture of instruments]
Almaznaia i tonkaia obrabotka v priborostroenii. Moskva,
Oborongiz, 1963. 186 p. (MIRA 16:4)
(Metal cutting) (Instrument manufacture)

KHRUL'KOV, V.A.; KULAKOV, Yu.M.

Grinding low-magnetic and nonmagnetic steels. Biol.tekh.-ekon.
inform.Gos.nauch.-issl.inst.nauch.i tekhn.inform. 18 no.4:30-33
Ap '65. (MIRA 18:6)

VIFANSKIY, Yu.K.; GOROKHOVSKIY, Yu.N.; KHRUL'KOVA, N.D.

Investigating the capacity of photographic materials for reproducing small details of the optical image. Part 3: Effect of the positive printing conditions on the reproduction of two-dimensional objects. Zhur.nauch.i prikl. fot.i kin. 5 no.1:15-19 Ja-F '60. (MIRA 13:5)

1. Gosudarstvennyy opticheskiy institut imeni S.I.Vavilova.
(Photographic sensitometry)

CA KHRUL'KOVA, Ye.F.

Polarographic investigation of complexes of zinc and the hydroxyl ion. I. A. Korshunov and E. P. Khrul'kova (Gorkov. Gosudarst. Univ.). *Zhur. Tekh. Khim.* (J. Gen. Chem.) 19, 2045-7 (1949). Solns. of $ZnSO_4$ in the presence of 0.01 N Na_2SO_4 and varying concns. (0.2-2 N) of $NaOH$ were studied polarographically. The concn. of Zn was 0.001 N. The reduction of Zn in solns. more alk. than 2.0 N shows a reduced wave rounded at the top. For these solns. the polarographic wave equation $\epsilon = \epsilon_{1/2} - (2.3 RT/nF) \log (i/(i_0 - i))$, where $\epsilon_{1/2}$ is the half-wave potential at $i = i_0/2$, does not apply in its simple form. Measurements were made at 0, 20, and 30° with a dropping-Hg electrode. For alkali concns. from 0.1 to 1 N, the equation $(\epsilon_{1/2})_0 = -\epsilon^0 - 0.09 \log A_{OH^-}$ applies, where $\epsilon^0 = 1.456, 1.400$, and 1.463 for temps. of 0, 20, and 30°, resp. For concn. 1.1 to 2.0 N $(\epsilon_{1/2})_0 = -\epsilon^0 - 0.12 \log A_{OH^-}$, where A_{OH^-} is the activity of the OH^- , and $\epsilon^0 = 1.457, 1.462$, and 1.466 . Comparison with the half-wave potential equation applicable to complex-forming compds. $d(\epsilon_{1/2})_0/d \log (OH^-) = -p 2.3 (RT/nF)$ indicates a value of the coordination number between 3 and 4. The disocn. consts. were detd. at 0, 20, and 30° by means of $(\epsilon_{1/2})_0 = (2.3 RT/nF) \log k - p 2.3 (RT/nF) \log A_{OH^-}$, where $(\epsilon_{1/2})_0 = 1.00$ v. From the values obtained for the temp. coeff., the heat of activation is 18,000 kilocalories. A. Leviton

KHRUMOV, N.

GABROVSKI, N.: KHRUMOV, N.

Atypical case of Raynaud's disease. Suvrem. med., Sofia 8 no.2:103-108
1957.

1. Iz Okoliiskata bolnitsa - Ikhtiman (Gl. lekar; K. Georgiev)
(RAYNAUD'S DISEASE, case reports,
atypical case (Bul))

25(1)

PHASE I BOOK EXPLANATION

301/3421

Andaslye nauk USSR, Kiev, Institut elektrosvarivaniya imeni akademika Ye. O. Patona
Vvedeniye koryzh spysokov svari v promyshlennosti, vyp. 2 (Introduction of
New Welding Methods in Industry) Collection of Articles, No. 2) Kiev, Gos.
izdatel'stvo. Lit-ry Ukrainy SSSR, 1955. 194 p. Kresla ally inserted.
3,000 copies printed.

Ed.: V. Garmusha; Tech. Ed.: S. Matusovich.

PURPOSE: This book is intended for workers in the welding industry.

CONTENTS: The book contains a discussion of welding techniques and problems by
groups of scientists and welders. Much attention is given to problems in the
application of new methods of mechanized welding and electro-slag welding.
This is the second collection of articles under the same title prepared and
published by the Institut elektrosvarivaniya imeni Ye. O. Patona (Institute of
Electric Welding imeni Ye. O. Patona). The preface is written by S. Ye. Paton,
Academician of the Ukrainian Academy of Sciences and winner of the Lenin Prize.

There are no references.

1. A. S. (Engineer), Ye. A. Spasibchenko (Candidate of Technical
Sciences), Ye. M. Kuznetsov (Engineer), Institut elektrosvarivaniya imeni
Ye. O. Patona (Institute of Electric Welding imeni Ye. O. Patona), D. E.
Tikhonov (Engineer), Zashchitnyy zavod imeni D. I. Chornogo (Plant imeni
D. I. Chornogo), V. I. Melnikovich (Engineer) baranovskiy zavod
svari (Baranovskiy zavod svari), and V. V. Garmusha (Engineer) Kirov-
skiy zavod mashinostroyeniya svari (Kirovskiy zavod mashinostroyeniya svari).
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1. A. S. (Senior Engineer), A. M. Melnik (Candidate of Technical Sciences),
and V. V. Garmusha (Senior Engineer), Institut elektrosvarivaniya imeni Ye. O. Patona
(Institute of Electric Welding imeni Ye. O. Patona). Welding joints for chemical
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1. A. S. (Candidate of Technical Sciences), A. E. Garmusha
(Engineer), Institut elektrosvarivaniya imeni Ye. O. Patona (Institute of Electric
Welding imeni Ye. O. Patona), and I. Garmusha (Head of Welding
Department), Podolskiy mashinostroyeniya zavod imeni S. O. Ordzhikidze
(Podolskiy mashinostroyeniya zavod imeni S. O. Ordzhikidze). Electro-
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1. A. S. (Candidate of Technical Sciences), V. P. Melnikovich
(Engineer), D. E. Zashchitnyy (Engineer), Institut elektrosvarivaniya imeni
Ye. O. Patona (Institute of Electric Welding imeni Ye. O. Patona), D. E. Garmusha
(Head of Welding Office), and V. P. Melnikovich (Technologist of
welding shop). Electro-slag automatic arc welding of medium and large
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1. A. S. (Candidate of Technical Sciences), V. P. Melnikovich
(Engineer), D. E. Zashchitnyy (Candidate of Technical Sciences), Institut
elektrosvarivaniya imeni Ye. O. Patona (Institute of Electric Welding imeni
Ye. O. Patona), L. A. Polonskiy (Shop Foreman), Dnepropetrovskiy metal-
lurgicheskiy zavod imeni G. I. Petrovskogo (Dnepropetrovskiy metal-
lurgicheskiy zavod imeni G. I. Petrovskogo), V. P. Garmusha (Shop Superintendent),
Alchevskiy metalurgicheskiy zavod imeni L. M. Voroshilova (Alchevskiy
metalurgicheskiy zavod imeni L. M. Voroshilova), and M. A. Ryabinin
(Chief Mechanic), Magnitogorskiy metalurgicheskiy kombinat (Magnitogorsk
metalurgicheskiy kombinat). Introduction of automatic hard-surfacing in
the metallurgical industry 74

1. A. S. (Candidate of Technical Sciences), S. L. Mandel-
berg (Candidate of Technical Sciences), Institut elektrosvarivaniya imeni
Ye. O. Patona (Institute of Electric Welding imeni Ye. O. Patona)
Z. O. Kuznetsovskiy (Candidate of Technical Sciences), Ukrainskiy nauchno-
issledovatel'skiy tsentr (Ukrainian Scientific and Research
Institute of Pipes), and S. A. Priblud (Chief Engineer, Chelyabinsk
turbopropul'snyy zavod (Chelyabinsk Pipe-rolling Plant)). New Techniques
in Straight-seam welding of large-diameter Oil and Gas Pipes 93

1. A. S. (Engineer), Institut elektrosvarivaniya imeni Ye. O. Patona
(Institute of Electric Welding imeni Ye. O. Patona), D. E. Zashchitnyy (Chief
Engineer, Dnepropetrovskiy zavod svari (Dnepropetrovskiy zavod svari)), and
A. M. Melnik (Chief of the Department of Gas Pipeline Construction;
Glavgaz SSSR (Main Administration of the Gas Industry of the USSR)). Mech-
anized Methods of Welding in Pipeline Construction 109

1. A. S. (Candidate of Technical Sciences), Winner of Lenin
Prize, Institut elektrosvarivaniya imeni Ye. O. Patona (Institute of Electric Welding
imeni Ye. O. Patona), V. A. Mayanskiy (Chief Engineer,
Dnepropetrovskiy (Ukrainian Main Administration for Petroleum Marketing)),
and V. P. Garmusha (Head of Construction and Assembly Administration,
Dnepropetrovskiy zavod svari (Dnepropetrovskiy zavod svari)), and
S. A. Priblud (Chief of the Department of Gas Pipeline Construction;
Glavgaz SSSR (Main Administration of the Gas Industry of the USSR)). Mech-
anized Methods of Welding in Pipeline Construction 115

K H. R. U. N. D. = H. E. U. A. A. M.

18(2,3,5)

AUTHOR:

TITLE:

PERIODICAL:

ABSTRACT:

Card 1/3

SOV/125-59-9-9/16

Gupalo, Yu. D., Candidate of Technical Sciences, Rabinovich, V.I., Bellor, N.G., Rosenberg, O.O., and Khumidze, V.M., Engineers

Electric Welding under Slag of Circumferential Welds of Thick-walled Tanks

Avtomaticheskaya svarka, 1959, Nr 9, pp 64-73 (USSR)

The Barnaul'skiy Boiler-Works in co-operation with the Institute of Electric Welding Imsi Ye.O. Paton has, in 1953-1958, worked out and introduced the method of electric welding of longitudinal and circumferential welds for boilers and hydraulic press drums, made of steel 22 k and having a wall thickness of 4 to 20 cm. Fig. 1, a cylindrical tank of 1000-2000 liters capacity, with welds 10-15 mm thick, working under pressure of 320 atm. The welds were made by the method of welding under slag, such tanks were made of forged steels, or they were all-forged, as a result of this method of manufacturing, the total losses of metal wasted in machining and forging amounted to 75% while the process of machining and finishing took 2 to 3 weeks. The new method enables manufacturing of cylindrical tanks out of two parts prepared by hot stamping under pressure of 8000 tons. Welding of circumferential joints is performed by two electrodes at the electrode feed speed of 100 m/hour. At the beginning of the process the tension of the arcs applied is 40 to 42 volts; later on when the process becomes stabilized, the tension is raised to 250 m/hour. The slag puddle is 45-55 mm deep. In Table 1, figures show the conditions of welding are given. In compliance with the regulations of the Gosgortekhnadzor and of the technical conditions of the Gosgortekhnadzor, the quality of welds undergoes a control which is performed by means of ultra-sonic detectors that permit disclosing of such faults which could not be detected

by using other methods of checking, and which shorten the process of X-rays examination. The examination of welds is performed on 35% of circumferential welds 15 cm thick, 30 minutes. Table 2 gives the average figures on the welding of welds having $\delta = 155$ mm. Welding was performed with 100% electrode wire with application of powder flux 40-50%. There are 2 tables, 6 diagrams, 1 photograph and 7 Soviet references.

1) Barnaul'skiy kotelny zavod (Barnaul Boiler Works); 2) Institut elektrosvarki Imsi Ye.O. Paton (Order of the Red Banner of Labor Institution of Electric Welding Imsi Ye.O. Paton, AS Ukr-SSR), (Bel'gor, Iupais, Rosenberg, Khumidze) August 21, 1958

ASSOCIATION:

1) Barnaul'skiy kotelny zavod (Barnaul Boiler Works); 2) Institut elektrosvarki Imsi Ye.O. Paton (Order of the Red Banner of Labor Institution of Electric Welding Imsi Ye.O. Paton, AS Ukr-SSR), (Bel'gor, Iupais, Rosenberg, Khumidze) August 21, 1958

SUBMITTED:

Card 3/3

Card 2/3

SOV/125-59 -3-4/13

18(5), 25(5)

AUTHOR: Voloshkevich, G.Z., and Khrundzhe, V.M.

TITLE: Electric Welding with Covered Electrode by a Melting Work Piece (Elektroshlakovaya svarka plavyashchimsya mundsh-tukom)

PERIODICAL: Avtomaticheskaya svarka, 1959, Vol 12, Nr 3, pp 32-34 (USSR)

ABSTRACT: A description of the method of welding with melting work pieces, of the construction of the melting work piece, of the necessary equipment as well as of the technique of the welding process is given. The melting work piece can be fixed between the two pieces to be welded in a movable as well as in an immovable way. This method is to be recommended for welding pieces of a width of more than 500 mm and a length of more than 1000 mm, for welding of intricate profiles and joints that are inaccessible. The selection of the work pieces depends on the material of the pieces to be welded. The diameter of the work piece should not be more than 10-50% of the welding seam. The

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Electric Welding with Covered Electrode by a Melting Work Piece SOV/125-59-3-4/13

construction of the melting work piece is described in Fig. 1. The melting work piece consists of a sheet of approximately 4-5 mm thickness, upon which a thin sheet is welded by spot welding in which the covered electrode is led. According to the author, construction (1v) is the best of possibilities (1a), (1b), (1v) and (1g). It can be taken from Fig. 1 that the melting work piece can have any shape. Fig. 2 shows an example for the mounting of immovable melting work pieces. The material of the insulators should be of the kind that melts under processing and will be taken up by the pool of slag. The best material is glass wool, the worst asbestos. In Fig. 3 an apparatus is shown, by which the electrodes can be led continuously. Speed can be calculated by an equation (1) which is demonstrated in figure 6. Fig. 5 shows an apparatus which enables an additional correction of the leading of the electrodes. The latter one, however, is only applicable in a limited way. (Maximum width of the melting work piece is 200-300 mm). By equation 4, the necessary distance between the electrodes can be calculated.

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Electric Welding with Covered Electrode by a Melting Work Piece SOV/125-59-3-4/13

There are 6 diagrams and 1 Soviet reference.

ASSOCIATION: Ordena trudovogo krasnogo znameni institut elektrosvarki
im. Ye. O. Patona AN USSR (Order of the Red Banner of
Labor, Institute for Electro-Welding im. Ye. O. Paton, AS
UkrSSR)

SUBMITTED: November 22, 1958

Card 3/3

KARUNDZHE, V.M.

PHASE I BOOK EXPLOITATION 30V/5078

Akademiya nauk USSR, Kiev. Institut elektrosvarivaniya
Vnedreniya novykh sposobov svari v promyshlennosti; sbornik statey.
Vyp. 3. (Introduction of New Welding Methods in Industry; Col-
lection of Articles. v. 3) Kiev, Gos. izd-vo tekhn. lit-ry
UkrSSR, 1960. 207 p. 5,000 copies printed.

Sponsoring Agency: Ordona Trudovogo Krasnogo Znameni Institut
elektrosvarivaniya i svari akademika Ye. O. Patona Akademii nauk
Ukrainskoy SSR.

Ed.: M. Pisarenko; Tech. Ed.: S. Matusevich.

PURPOSE: This collection of articles is intended for personnel in
the welding industry.

COVERAGE: The articles deal with the combined experiences of the
Institut elektrosvarivaniya i svari Ye. O. Patona (Electric Welding
Institute named Ye. O. Paton) and several industrial enterprises
in solving scientific and engineering problems in welding
technology.

Problems in the application of new methods of me-
chanized welding and electroslag welding in industry are discussed.
This is the third collection of articles published under the same
title. The Record was written by B. Ye. Paton, Academician of
the Academy of Sciences Ukrainian SSR and Lenin prize winner.
There are no references.

TABLE OF CONTENTS:

Labra, A. S. [Engineer], Yu. A. Serenbogen [Candidate of Technical Sciences], V. M. Karundzhe [Engineer, Electric Welding Institute named Ye. O. Paton], D. P. Antoneti [Engineer, Zhdanovskiy zavod imeni I. I. Icha (Zhdanov Plant named I. I. Icha)], V. I. Rabinovich [Engineer, Barnaul'skiy zavod (Barnaul Boiler Plant)], and V. V. Chistykh [Engineer, New Krematorsk Machinery Plant]. Electroslag Welding of Steel-Plate Structures	17
Labra, A. S. [Engineer], A. M. Kikun [Candidate of Technical Sciences], and S. V. Novikov [Senior Engineer, Electric Welding Institute named Ye. O. Paton]. Electroslag Welding of Forged Sections	32
Medovak, B. I. [Candidate of Technical Sciences], A. M. Safonnikov [Engineer, Electric Welding Institute named Ye. O. Paton], and A. M. Gerasimenko [Head of Welding Department, Podolskiy Mashinostroitel'nyy zavod imeni S. O. Ordzhonikidze (Podolsk Machinery Plant named S. O. Ordzhonikidze)]. Electroslag Welding of Large Flanges Made of 1Kh18N9T Austenitic Steel	51
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VOLOSHKEVICH, G.E.; KHRUNDZHE, V.M.; SUSECHUK-SLYUSARENKO, I.I.

Reconditioning the stand of a three-ton hammer. Avtom.svar.
13 no.7:76-79 J1 '60. (MIRA 13:7)

1. Orden Trudovogo Krasnogo Znameni Institut elektrosvarki im.
Ye.O.Patona AN USSR.

(Power presses--Maintenance and repair)
(Electric welding)

SHEKHTER, S.Ya.; ZADOROZHNYI, N.K.; KHRUNDZHE, V.M.

An 18 electrode unit for molten-metal arcless electric welding.

Biul.tekh.-ekon.inform. no.9:25-27 '61.

(MIRA 14:9)

(Electric welding)

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32959
S/125/62/000/001/006/011
D036/D113AUTHORS: Voloshkevich, G.Z.; Sushchuk-Slyusarenko, I.I.; Khrundzhe, V.M.

TITLE: Electrosag welding of the runners of radial-axial hydraulic turbines.

PERIODICAL: Avtomaticheskaya svarka, no. 1, 1962, 46-58

TEXT: The authors describe a technology which they developed for manufacturing a 120 ton runner for a 225,000 kw turbine for the Bratskaya GES (Bratsk Hydroelectric Power Plant) by joining the separately-cast blades to the upper and lower crowns by electrosag welding with a consumable electrode-holder. The runner could not be cast in its entirety because its shape was too complex to permit obtaining a high-quality casting of the required precision. The Water Turbine Office of the Leningradskiy metallicheskiy zavod (Leningrad Metalworking Plant) had originally suggested using electrosag welding for joining the blades to the upper crown, and manual welding for joining the blades to the lower crown. The blades were held in position while being welded to the upper crown by normal Π -shaped clamps joined to the blade by heavy welds; a proportioned counteracting moment was applied to the blade edges during welding by pre-tensioned spring clamps (Fig.2). The

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Electroslag welding ...

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general arrangement of the blade and upper crown is shown in Fig. 4, in which (1) are the spring clamps welded on to given points on the blade, (2) are the normal Π -shaped clamps for holding the lower end of the blade, (3) are glass fiber inserts for insulating the consumable electrode-holder and (4) is a clamp which is welded on to the blade and which thrusts against a boss on the crown. The latter clamp prevents the blade edges being displaced in the upper part of the butt. The position of the outlet edge of the blade was taken as a base for the assembly. The welding conditions for welding the blades to the upper crown were as follows: welding voltage 43-46 v; feed of welding wire 160 m/hr; number of wires - 2; depth of slag pool 45-50 mm. The welding was carried out with an A-545 (A-545) welder, AH-8 (AN-8) flux, $\text{CB-10}\Gamma^2$ (Sv-10G2) welding wire and an 8 mm thick consumable electrode-holder made of Cr.3 (St.3) steel. One butt took 2 machine-hours, the total time required to assemble and weld one butt being 3.5 hrs. Before welding on the blades to the lower crown, the edges of the blades were trimmed by a special P-930 (R-930) device, in which the cutting torch could move along its axis along guides parallel to the generatrix of the internal conical surface of the crown and at the same time turn about the runner axis. When

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assembling the lower crown and blades, the lower crown was clamped by three struts of refractory steel (Fig.1) in order to preclude geometrical distortion caused by welding stresses and subsequent heat treatment of the two halves of the crown. For welding the blades to the lower crown, a manipulator held the runner at an angle of 45° to the horizon. The welding conditions were as follows: welding voltage - 44-47 v; feed of welding wire - 177 m/hr; number of wires - 2; brand of welding wire - Ca-10Г2 (Sv-10G2) , depth of slag pool - 45-50 mm. An Er.3 (St.3) consumable electrode-holder 8 mm thick was used. The welding took two machine-hours and the total time required for the assembly and welding of one butt was 3.5 hrs. An accuracy of 1 mm was achieved in the radius of the inner surface of the crown after welding. The conclusions are as follows: (1) A flexible attachment by spring clamps may be used in addition to a counteracting moment for obtaining accuracy of the measurements after welding, in addition to a counteracting moment; (2) The precision of the dimensions of a welded-cast runner is determined by the precision of the blade blanks. A considerable number of errors in the blade dimensions can be compensated for during the assembly; (3) Use of a flexible attachment for manufacturing the first welded-cast turbine runner for the Bratsk Hydroelectric Power Plant allowed

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Electroslag welding ...

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the accuracy of manufacturing the runner to be increased several times in comparison with a solid-cast runner; (4) A special gas-cutting apparatus should be used for trimming the blade edges connected with the lower crown; (5) Welding the lower crown to the blades should be carried out by the electroslag method. The costs of making T-joints with a conical axial surface do not exceed those incurred when welding the blades to the upper crown. There are 11 figures, 2 tables and 3 Soviet references.

ASSOCIATION: Ordena Trudovogo Krasnogo Znameni Institut elektrosvariki im. Ye.O. Patona AN USSR (Electric Welding Institute "Order of the Red Banner of Labor" im.Ye.O. Paton of the AS UkrSSR)

SUBMITTED: January 31, 1961

Card 4/4

KHRUNDZHE, V.M.; SHEKHTER, S.Ya.

Electric slag welding of a conical crusher shaft. Avtom.svar.
15 no.5:72-77 My '62. (MIRA 15:4)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki
imeni Ye.O.Patona AN USSR (for Khrundzhe). 2. KommunarSKIY
metallurgicheskiy zavod (for Shekhter).
(Crushing machinery--Maintenance and repair) (Electric welding)

SUSHCHUK-SLYUSARENKO, I.I.; KHRUNDZHE, V.M.; SHEKHTER, S.Ya.

Providing for the dimensional accuracy of cylindrical articles during electric slag welding. Avtom. svar. 17 no.2:77-80 F '64.

(MIRA 17:9)

1. Institut elektrosvarki im. Ye.O. Patona AN UkrSSR (for Sushchuk-Slyusarenko, Khrundzhe). 2. KommunarSKIY metallurgicheskiy zavod (for Shekhter).

KHRUNDZHE, V.M.

Reconditioning parts by electric slag welding with a consumable tip. Avtom. svar. 17 no.8:89 Ag '64.

(MIRA 17:11)

L 5019-66 EWT(m)/EWP(t)/EWP(k)/EWP(b)/EWA(c) JD/HW
 ACC NR: AP5022041 SOURCE CODE: UR/0286/65/000/0114/0113/0113
 AUTHORS: Paton, B. Ye.; Dudko, D. A.; Medovar, B. I.; Khrundzha, V. M.;
 Lutsyuk-Khudin, V. A.; Sayenko, V. Ya.; Dryapik, Ye. P.; Shekhter, S. Ya.;
 Salov, Ye. M.; Baranov, S. V.
 ORG: none
 TITLE: A method for obtaining two-layer rolling. Class 49, No. 173115 [Institute
 of Electric Welding im. Ye. O. Paton, AN UkrSSR (Institut elektrosvarki AN UkrSSR)]
 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 113
 TO IC TAGS: metal rolling, metal cladding, metal industry
 ABSTRACT: This Author Certificate presents a method for obtaining two-layer
 rolling by lining a plate ingot with a solid plate. To produce proper adhesion
 between the layers, the plate ingot is lined with a plate of cladding metal to
 which is welded a plate of metal analogous in composition to the one being lined.
 SUB CODE: IE, MM/ SUBM DATE: 04Jul63/ ORIG REF: 000/ OTH REF: 000
 Card 1/1
 07010723 UDC: 621.771.8

ACC NR: AP6035713

(N)

SOURCE CODE: UR/0413/66/000/019/0058/0058

INVENTOR: Maksimovich, B. I.; Dudko, D. A.; Khrundzhe, V. M.

ORG: none

TITLE: Electroslag welding of low-melting metals and alloys with high heat conductivity. Class 21, No. 186586

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 58

TOPIC TAGS: electroslag welding, ~~low melting metal welding~~, high heat conductivity
~~metal~~ low temperature metal, metal property

ABSTRACT: This Author Certificate introduces a method of electroslag welding of low-melting metals and alloys with high heat conductivity. To obtain high-quality welds, the lower part of a nonconsumable electrode, which is immersed in a slag bath, is enclosed in a refractory tube and in this way is electrically insulated from the molten slag leaving only the face of the electrode in contact with the slag.

SUB CODE: 13/ SUBM DATE: 13May65/

Card 1/1

UDC: 621.791.793

KALITA, P.G., gornyy inzh.; SHKOLYARENKO, F.N., gornyy inzh.;
KHRUNICHEV, P.I., inzh.-elektromekhanik

Analyzing the work of the Yurkovo open-pit coal mine of the
"Vatutinugol'" mining administration. Ugol' Ukr. 9 no.12:
24-26 D '65. (MIRA 19:1)

1. Rudoupravleniye Vatutinugol'.

KHRUNICHEV, Yu. A.

"Investigation of Automatic Processes of Electrode Production." Cand Tech
Sci, Moscow Order of Labor Red Banner Higher Technical School imeni Bauman, Min
Higher Education USSR, Moscow, 1955. (KL, No 15, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended
at USSR Higher Educational Institutions (16).

KHRUNICHEV, Yu.A.

Productivity analysis of automatic electrode welding machines.
[Trudy] MVTU no.38:181-196 '55. (MLBA 9:8)
(Electrodes--Welding)

KHRUNICHEV, Yu. A.

ABRAMOVICH, I.I., prof., ANBINDER, A.G., inzh., ANTOSHIN, Ye.V., inzh.,
 ARKHANOE'LSKIY, L.A., inzh., ASTAF'YEV, S.S., kand. tekhn. nauk,
 APANAS'YEV, L.A., inzh., BAROSHTEN, I.I., inzh., BORISOV, Yu. S.,
 inzh., red., BYALYY, I.L., inzh., VITVITSKIY, A.M., inzh., GERSHMAN,
 D.Kh., inzh., GINZBURG, Z.M., inzh., GOROSHKIN, A.K., inzh.,
 YEVDOKIMCHIK, Kh.I., inzh., ZHIKH, V.A., kand. tekhn. nauk,
 ZABYVAYEV, Ye. I., kand. tekhn. nauk, [deceased], ZOBIN, V.S., inzh.,
 IVANOV, G.P., kand. tekhn. nauk, KAPRANOV, P.N., inzh., KONDRATOVICH,
 V.M., inzh., KOSTEROV, S.K., inzh., KOVAL'SKIY, N.N., inzh., KRUGLYAK,
 L.A., inzh., LUKYANOV, T.P., inzh., LAPIDUS, A.S., kand. tekhn. nauk,
 LIVSHITS, G.A., kand. tekhn. nauk, LISHANSKIY, I.M., inzh., MIGALINA,
 Ye.Ya., inzh., NOSKIN, R.A., kand. tekhn. nauk; PRONIKOV, A.S.,
 doktor tekhn. nauk, REGIER, Z.L., kand. tekhn. nauk, RUDYK, M.A.,
 inzh., SOKOLOVA, N.V., inzh., SAKLINSKIY, V.V., inzh., SAKHAROV, V.P.,
 inzh., TOKAR', M.Kh., inzh., TKACHEVSKIY, G.I., inzh., KHRUNICHEV,
 Yu. A., kand. tekhn. nauk, TSOPIN, K.G., inzh., red.; SHEYNGOL'D, Ye. M.,
 inzh., SOKOLOVA, T.F., tekhn. red.

[Handbook for machinists of machinery plants in two volumes] Spravochnik
 mekhanika mashinostroit'nogo zavoda v dvukh tomakh. Moskva, Gos.
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 of repair work] Tekhnologiya remonta. Otv. red. toms IU. S. Borisov,
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(Machinery--Maintenance and repair)
 (Machine-shop practice)

(MIRA 11:10)

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25(5)

p 3

PLANE 1 BOOK REPAIRING

807/1501

Spetsialnaya tekhnika mashinostroitel'nogo zavoda v Avdiu tomsh.
 2. Tekhnologiya remontov (Handbook for Mechanics of Machine-building
 Plants in Two Volumes. Vol. 2: Technology of Repair Operations) Moscow,
 Mashgiz, 1956. vii, 1099 p. 40,000 copies printed.

Repr. M.: Tekh. Buro, Reprint. Ed.: L.G. Tsypin, Engineer, Tech. M.:
 23. Shchurval' Ed. of det. Tsk. Buro, Reprint. Ed.: L.G. Tsypin, Engineer,
 Reprint. Ed. of det. Tsk. Buro, Reprint. Ed.: L.G. Tsypin, Engineer,
 Reprint. Ed. of det. Tsk. Buro, Reprint. Ed.: L.G. Tsypin, Engineer,
 Reprint. Ed. of det. Tsk. Buro, Reprint. Ed.: L.G. Tsypin, Engineer.

REMARKS: This handbook is intended for personnel responsible for repair and main-
 tenance operations in a machinery-manufacturing plant.

CONTENTS: The handbook contains information pertinent to the organization of
 repair and maintenance operations, design-preparation of maintenance work, and
 economics of maintenance. Information on scientific research organizations and
 plants participating in preparation of this volume is included in the separate
 introduction (p. 1-7). There are 22 references. Basic topics covered include
 maintenance of machine tools, maintenance of machine tools, maintenance of
 machine tools, maintenance of machine tools, maintenance of machine tools;
 sheeting parts for precision; basic bench and assembly work; maintenance of
 power equipment; and maintenance of foundations.

REMARKS: This handbook is intended for personnel responsible for repair and main-
 tenance operations in a machinery-manufacturing plant.

REMARKS: This handbook is intended for personnel responsible for repair and main-
 tenance operations in a machinery-manufacturing plant.

Card 7/26

KAUFMAN, Mikhail Simonovich; KUZNETSOVA, Anna Alekseyevna; KHRUNICHEV,
Yuriy Andreyevich; BRODSKIY, S.I., red.; BORUNOV, N.I.,
tekhn. red.

[Manufacture of spirals, grids, and leads of electronic
vacuum devices]Proizvodstvo spiralei, setok i vvodov elektro-
vakuumnykh priborov. Moskva, Gosenergoizdat, 1962. 262 p.
(MIRA 16:4)

(Electron tubes)

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Signalization on automobile roads and city streets.Proc.Centr.Autoexploit.
Inst., 1934, No.7.

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KHRUNOV, N.P., and GUREVICH L.V.,

Technic of regulation of street traffic. Moskva, Publ. Minister of
Communications and Economics RSFSR, 1951.

KHRUNOV, N. P.

FLIT, S. M. - st. nauchn. sotr. i POLYAKOV, A. A. - kand. tekhn. nauk i
KUDRYAVTSEV, O. K. - o. st. nauchn. sotr. i GUREVICH, L. V. - Kand. tekhn.
nauk i KHRUNOV, N. P. - Kand. tekhn. nauk

Akademiya kommunal'nogo khozyaystva im. K. D. Pamfilova
Osnovnyye Meropriyatiya po Obespecheniyu Bezopasnosti Dvizheniya V Gorodakh
Page 79

SO: Collection of Annotations of Scientific Research Work on Construction, completed
in 1950.
Moscow, 1951

GUREVICH, L.V.; YAMPOL'SKAYA, T.G.; MURZAYEVA, L.B.; KHRUNOV, N.P., redaktor;
OTOICHEVA, M.A., redaktor; PETROVSKAYA, Ye., tekhnicheskij redaktor

[Road traffic signs] Dorozhnye signal'nye znaki. Moskva, Izd-vo
Ministerstva kommunal'nogo khoziaistva RSFSR, 1955. 46 p.
(Traffic regulations) (MLRA 9:2)

KHRUNOVA, A.P., aspirant; SMELOV, N.S., professor, zaveduyushchiy; TURANOV, N.M.,
kandidat meditsinskikh nauk, direktor.

Novocillin in the treatment of early forms of syphilis. Vest. ven. i derm. no.
4:51-53 JI-Ag '53. (MLRA 6:9)

1. Otdel sifilidologii Tsentral'nogo kozhno-venerologicheskogo instituta
Ministerstva zdravookhraneniya SSSR (for Smelov). 2. Tsentral'nyy kozhno-
venerologicheskii institut Ministerstva zdravookhraneniya SSSR (for Turanov).
(Syphilis) (Penicillin)